

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/050175

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G02B 6/12, H05K 1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G02B, H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| X         | R. Wiesmann et al<br>Singlemode polymer waveguides for optical backplanes; Electronics Letters 5 December 1996, Vol. 32, no. 25; page 2329-2330, AN 5459270 | 1,3-8,10, 13-18       |
| Y         | --  | 2                     |
| X         | US 6539157 B2 (YUTAKA DOI), 25 March 2003 (25.03.2003), column 2, line 23 - column 4, line 57   | 1,3-8,10, 13-16,18    |
|           | --  |                       |

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

21 March 2005

Date of mailing of the international search report

29-03-2005

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| X         | Henning Schröder et al First International IEEE Conference on Polymers and Adhesives in Microelectronics and Photonics, Proc. 21-24 Oct 2001, p 337-343; Polymer Optical Interconnects for PCB; AN 7238914<br>see chapter 3.1 | 1,3-5,13-23           |
| A         | --  | 6-8,10                |
| Y         | US 20030128907 A1 (HIDEO KIKUCHI ET AL),<br>10 July 2003 (10.07.2003)   | 2                     |
| A         | --  | 1,3-23                |
| PA        | EP 1387193 A1 (CANON KABUSHIKI KAISHA),<br>4 February 2004 (04.02.2004)   | 1-23                  |
| A         | US 5446814 A (SHUN-MEEN KUO ET AL), 29 August 1995<br>(29.08.1995), column 2, line 33 - column 3, line 7  | 1-18                  |
|           | --<br>-----   |                       |

## INTERNATIONAL SEARCH REPORT

Information on patent family members

01/03/2005

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|       |             |    |            |    |               |            |
|-------|-------------|----|------------|----|---------------|------------|
| US    | 6539157     | B2 | 25/03/2003 | CA | 2433612 A     | 11/07/2002 |
|       |             |    |            | EP | 1354228 A     | 22/10/2003 |
|       |             |    |            | JP | 2004523781 T  | 05/08/2004 |
|       |             |    |            | TW | 518922 B      | 00/00/0000 |
|       |             |    |            | US | 20020085823 A | 04/07/2002 |
|       |             |    |            | WO | 02054122 A    | 11/07/2002 |
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| US    | 20030128907 | A1 | 10/07/2003 | JP | 2003161853 A  | 06/06/2003 |
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|       |             |    |            | JP | 2004061799 A  | 26/02/2004 |
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| US    | 5446814     | A  | 29/08/1995 | EP | 0652454 A     | 10/05/1995 |
|       |             |    |            | JP | 7181349 A     | 21/07/1995 |
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